

Applicant respectfully requests the Examiner to replace the Claim 26 as presently shown in the Amendment to the Claims section with the following:

26. (Amended) A method for generating a database of sequences that are greater than or equal to about 100 nucleotides in length, wherein each sequence is entered into the database only one time, the method comprising the steps of:
selecting a query sequence from a redundant database;
masking said query sequence with known repeat sequences;
comparing said masked query sequence with identified unique sequences;
identifying a unique portion of the query sequence that does not have a similar sequence in any of the identified unique sequences; [and]
adding the unique portion of the query sequence top a unique database[.]; and displaying the unique database."

Applicant additionally respectfully requests that the Examiner replace in the "Status of the Claims" on pages 7-8 of the Response Claim 26 with the following in order to exactly conform to the amendments entered earlier in the Response:

26. (Currently amended) A method for generating a database of sequences that are greater than or equal to about 100 nucleotides in length, wherein each sequence is entered into the database only one time, the method comprising the steps of:
selecting a query sequence from a redundant database;
masking said query sequence with known repeat sequences;
comparing said masked query sequence with identified unique sequences;
identifying a unique portion of the query sequence that does not have a similar sequence in any of the identified unique sequences; [and]
adding the unique portion of the query sequence top a unique database[.]; and displaying the unique database."

Status of the Claims

What is claimed is:

1. (Cancelled).
2. (Cancelled).
3. (Cancelled).
4. (Cancelled).
5. (Cancelled).
6. (Cancelled).
7. (Cancelled).
8. (Cancelled).
9. (Cancelled).
10. (Cancelled).

11. (Cancelled).

12. (Cancelled).

13. (Cancelled).

14. (Cancelled).

15. (Cancelled).

16. (Cancelled).

17. (Cancelled).

18. (Cancelled).

19. (Cancelled).

20. (Cancelled).

21. (Cancelled).

22. (Cancelled).

23. (Cancelled).
24. (Cancelled).
25. (Cancelled).
26. (Currently amended) A method for generating a database of sequences that are greater than or equal to about 100 nucleotides in length, wherein each sequence is entered into the database only one time, the method comprising the steps of :
selecting a query sequence from a redundant database;
masking said query sequence with known repeat sequences;
comparing said masked query sequence with identified unique sequences;
identifying a unique portion of the query sequence that does not have a similar sequence in any of the identified unique sequences; [and]
adding the unique portion of the query sequence to a unique database[.]; and
displaying the unique database.
27. (Cancelled).
28. (Original) The method of claim 26, wherein said sequence is a deoxyribonucleotide sequence.
29. (Original) The method of claim 26, wherein said sequence is a ribonucleotide sequence.

30. (Original) The method of claim 26, wherein said sequences are derived from animal DNA or RNA.
31. (Withdrawn) The method of claim 30, wherein said animal is a human.
32. (Withdrawn) The method of claim 30, wherein said animal is a mouse.
33. (Withdrawn) The method of claim 26, wherein said sequences are derived from plant DNA or RNA.
34. (Withdrawn) The method of claim 33, wherein said plant is a single-cell plant.
35. (Withdrawn) The method of claim 26, wherein said sequences are derived from fungal DNA or RNA.
36. (Withdrawn) The method of claim 26, wherein said sequences are derived from DNA or RNA of a microorganism or virus.
37. (Withdrawn) The method of claim 26, wherein said sequences are derived from DNA or RNA of a single-cell eukaryote.

38. (Withdrawn) The method of claim 26, wherein said sequences are derived from synthetic man-made DNA or RNA.
39. (Withdrawn) The method of claim 26, wherein said sequences are postulated based upon amino acid sequences.
40. (Withdrawn) The method of claim 26, wherein said database is encoded in a biological medium.
41. (Withdrawn) The method of claim 26, wherein said database is encoded in a written medium.
42. (Original) The method of claim 26, wherein said database is encoded in an electronic medium.
43. (Original) The method of claim 42, wherein said electronic medium is a computer-readable medium.
44. (Original) The method of claim 43, wherein said computer-readable medium is addressable through an internet connection.
45. (Original) The method of claim 26, wherein said redundant database is a Public Domain Database.

46. (Original) The method of claim 45, wherein said Public Domain Database is GenBank.
47. (Withdrawn) The method of claim 45, wherein said Public Domain Database is dbEST.
48. (Withdrawn) The method of claim 45, wherein said Public Domain Database is TIGR.
49. (Withdrawn) The method of claim 45, wherein said Public Domain Database is SwissProt.
50. (Original) The method of claim 26, wherein said comparing step further utilizes a Database Search Algorithm.
51. (Original) The method of claim 50, wherein said Database Search Algorithm is BLAST.
52. (Withdrawn) The method of claim 50, wherein said Database Search Algorithm is FASTA.
53. (Withdrawn) The method of claim 50, wherein said Database Search Algorithm is Smith-Waterman.
54. (Original) The method of claim 26, wherein said comparing step further utilizes a Scoring Matrix Program.

55. (Withdrawn) The method of claim 54, wherein said Scoring Matrix Program is PAM.
56. (Withdrawn) The method of claim 54, wherein said Scoring Matrix Program is BLOSUM.
57. (Cancelled)
58. (Cancelled)
59. (Cancelled)
60. (Cancelled)

The Commissioner is authorized to charge to McDaniel & Associates P.C. Deposit Account No. 50/1085, any fee for extension of time deemed necessary to make timely the filing of this response.

Respectfully submitted,

Date: 3.21.05



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